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The plan of the work is excellent and in the main it is well worked out. The sequence followed is that of Hackel in Engler and Prantl's *Naturalischen Pflanzenfamilien*. The characterization of each division and tribe is full and apparently well drawn, and under these the descriptions of genera and species are equally well made. Occasionally one notices a little redundancy of words, but this is a fault which will displease very few. We are so accustomed to short and insufficient descriptions that it is quite gratifying to find descriptions in which there is something to spare. To a large extent these descriptions are new, at least the book is not a mere compilation of scattered descriptions. The student will find here, for the first time, descriptions of all our grasses, 809 native and 103 exotic species. The author has attempted to illustrate nearly every genus, and he has succeeded so well that of 146 genera, 126 are figured. Some of these figures are crude, and the lettering in some is cruder still, but taken as a whole, they are helpful, while many are very well done.

We notice with pleasure that the nomenclature is in accordance with the "Rochester-Madison Rules," and, contrary to what some have feared, the changes in well known names are not many. The synonymy is full, but has not been as carefully collected as it should have been, due probably to the employment of clerical help. We notice with regret also that the range of many species of the Plains has not been accurately given, although authentic lists, and even herbaria, could have readily been consulted. These errors of omission and commission are, however, not so great as to be seriously harmful, and they can easily be corrected in a second edition. As it is, the work will be very useful, and American botanists are deeply indebted to the author, for completing this laborious task.—CHARLES E. BESSEY.

**Brush's Determinative Mineralogy and Blowpipe Analysis.**<sup>2</sup>—This most valuable text-book on blowpipe analysis, with tables for the determination of Mineral species by blowpipe methods has long been the standard text used in our colleges. The first part (Blowpipe Analysis) has now been entirely rewritten and enlarged from 62 to 163 pages. The valuable tables which were based on von Kobell's *Tafeln zur Bestimmung der Mineralien* are now in process of revision for a later edition of the work. As these tables comprise but 33 double pages against 163 pages of the text devoted to blowpipe analy-

<sup>2</sup> *Fourteenth Edition, Revised and Enlarged*, by Prof. S. L. Penfield. Wiley, \$3.50.

sis, it seems to the reviewer that it would be well to change the title to Blowpipe Analysis and Determinative Mineralogy, which would then indicate the natural order of considering these subjects and the one followed in the book.

The new text is admirably written and of especial value because of the discriminating judgment that has been shown in selecting the characteristic tests for the elements. When no really satisfactory blowpipe test for an element exists the author recommends a test employing the wet methods. In order to make the work as complete as possible tests for the rarer elements are included but appear in finer print. Valuable hints concerning the best quantity of material to be used in each case and little "tricks" of manipulation which are usually only learned after considerable experience in applying the methods abound in the book. Mineralogists generally will rejoice to see this valuable work brought up to date by so experienced and so accurate a mineralogist as Professor Penfield and will look forward with interest to the appearance of the revised tables. The author announces in his preface that he intends to add a chapter to the work so as to treat briefly crystallography and the physical properties of minerals.—WM. H. HOBBS.

**Chudzinski on the Facial Muscles.**<sup>3</sup>—M. Chudzinski, who for many years was the preparateur of anatomy, and the active colleague of Paul Broca, has just published a work of well matured thought, the result of dissections carried on by the author during twenty-five years. This paper comprises a study of the muscles of the face and neck in many different races of men, their variations, their anomalies, and their analogies and differences with those of the monkeys. When it is considered that these muscles are the ones that control the physiognomy, that is to say, control the expression of mind, one can appreciate the interest which this work of M. Chudzinski will have, not only for anatomists, but also for anthropologists and artists.

<sup>3</sup> Some Observations on the Muscles of the Human Skull and Face, by Theophile Chudzinski, Assistant in the Laboratory of Anthropology at the School of Hautes Etudes, Member of the Society of Anthropology, Laureate of the Academy. One volume in 8vo, with 25 figures in the text. 4 fr.